APPENDIX E TREATMENT DESCRIPTIONS

This appendix has two parts: E.1 displays the fuel reduction treatments and E.2 displays the restoration activities. Modifications from Alternative E as described in the FEIS are in **bold text**.

E.1 FUEL REDUCTION TREATMENTS

Unit by unit treatment descriptions of fuel reduction activities described in the following section of this appendix. Guidelines for coarse woody debris, snag and green tree retention would be followed within each unit as **described in Appendix A of the ROD.** Treatments of activity-generated-fuels (woody material including limbs and tops left after treatment) are also described. These silvicultural prescriptions and activity-generated-fuels treatments provide a mechanism to reduce forest fuels (ladder fuels) and tree densities in the Red River watershed. Treatments would remove dead or green trees that could contribute to higher fire intensity and severity of a future wildfire.

Clearcut. For the purpose of this project, the term clearcut implies removal of up to 90% of the tree canopy in a stand (the amount of ground covered by the tree crown). This differs from the conventional definition of harvesting all trees at one time. The area harvested may be a patch, stand, or strip large enough to be mapped or recorded as a separate age class in planning. Retained trees within a clearcut area will be a combination of individual trees, in clumps or patches (**ROD Appendix A**). Tree regeneration is obtained through natural seeding, through planting, or by direct seeding. Within areas proposed for clearcut treatment approximately 75% of the trees that will be removed are currently dead.

Shelterwood or Irregular Shelterwood. For the purpose of this project, a shelterwood or irregular shelterwood cut is a treatment that removes up to 60% of the tree canopy in a stand. Tree canopy includes overstory and understory trees (dead or green). Up to 50% of the overstory tree canopy would be retained within a unit to provide shade and for other resource benefits. Trees retained include medium to large diameter trees (14 inches Dbh, or larger). This differs from the conventional definition of shelterwood cut which is the removal of a stand of trees through a series of cuttings designed to establish a new crop with seed and protection provided by a portion of the stand. For this proposal, a shelterwood cut is a single cut (entry) to reduce ladder fuels, allow natural regeneration (no planting), and provide protection by retained larger trees. An irregular shelterwood cut would retain more trees and have a patchy or irregular distribution and density of residual trees.

Precommercial thinning. The selective felling, deadening, or removal of trees in a young stand of trees primarily to accelerate diameter increment on the remaining stems, maintain a specific stocking range or reduce stand density, and improve the vigor and quality of the trees that remain. This treatment would retain approximately 400 to 600 trees per acre (most desirable species, ~10x10 foot spacing), and other trees would be cut and left in place. Trees cut will be young green trees that are approximately 10-15 years old (sapling to pole size, up to 8 inches Dbh).

Excavator pile (activity-generated fuels treatment). Excavator piling is a type of mechanical piling of vegetation as a fuel treatment. This would normally be accomplished on slopes less than 35%. Piles would subsequently be burned to reduce fuels.

Underburn (activity-generated fuels treatment). A type of broadcast burn designed to reduce fuel accumulations beneath an overstory tree canopy (natural stand, shelterwood, seed tree), and be designed to prepare the area for future tree regeneration (natural seeding or planted).

Broadcast Burn (activity-generated fuels treatment). Within a defined boundary, allowing a controlled fire to burn. The purpose is to reduce fuel accumulations, or as part of a silvicultural treatment, or both, and be designed to prepare the area for future tree regeneration (natural seeding or planted).

Table R-18 display the silvicultural treatment, harvest system, activity-generated fuels treatment, unit acres and percent canopy removal by unit for Alternative E - Modified. Modifications from Alternative E as described in the FEIS are in **bold text**.

Table R-18 Fuel Reduction Treatments

| Unit | Silvicultural Treatment | Harvest System | Activity- Generated Fuels Treatment | Acres | % Canopy Removal |
|------|-------------------------|-------------------|---|-------|---------------------|
| 1 | Irregular Shelterwood | Skyline | Underburn | 4 | 60 |
| 2 | Irregular Shelterwood | Skyline | Underburn | 21 | 60 |
| 3 | Irregular Shelterwood | Skyline | Underburn | 98 | 50 |
| 4 | Irregular Shelterwood | Tractor | Ex. Pile | 12 | 50 |
| 5 | Irregular Shelterwood | Skyline | Underburn | 4 | 50 |
| 6 | Irregular Shelterwood | Skyline | Underburn | 12 | 60 |
| 7 | Irregular Shelterwood | Skyline | Underburn | 24 | 60 |
| 8 | Irregular Shelterwood | Skyline | Underburn | 40 | 60 |
| 9 | Irregular Shelterwood | Skyline | Underburn | 4 | 50 |
| 10 | Irregular Shelterwood | Skyline | Underburn | 5 | 50 |
| 11 | Clearcut | Tractor | Ex. Pile | 18 | 90 |
| 12 | Clearcut | Skyline | Broadcast | 66 | 90 |
| 13 | Clearcut | Skyline | Broadcast | 37 | 90 |
| 15 | Irregular Shelterwood | Tractor | Ex. Pile | 16 | 60 |
| 16 | Precommercial Thin | Hand | Handpile | 18 | 10 |
| 17 | Precommercial Thin | Hand | Handpile | 10 | 10 |
| 22 | Shelterwood | Skyline | Underburn | 35 | 60 |
| 24 | Irregular Shelterwood | Skyline | Underburn | 17 | 50 |
| 26 | Clearcut | Skyline | Broadcast | 17 | 60 |
| 27 | Shelterwood | Skyline | Underburn | 39 | 60 |
| 28 | Shelterwood | Skyline | Underburn | 2 | 60 |
| 29 | Shelterwood | Skyline | Underburn | 12 | 60 |
| 30 | Shelterwood | Skyline | Underburn | 3 | 60 |
| 31 | Precommercial Thin | Hand | Handpile | 14 | 10 |
| 32 | Clearcut | Tractor | Ex. Pile | 33 | 90 |
| 33 | Clearcut | Skyline | Broadcast | 15 | 90 |
| 35 | Irregular Shelterwood | Skyline | Underburn | 5 | 50 |
| 36 | Irregular Shelterwood | Tractor | Ex. Pile | 9 | 50 |
| 37 | Irregular Shelterwood | Tractor | Underburn | 7 | 50 |
| 38 | Irregular Shelterwood | Skyline | Underburn | 11 | 50 |
| 41 | Shelterwood | Tractor | Ex. Pile | 18 | 60 |
| 42 | Shelterwood | Skyline | Underburn | 9 | 60 |
| 43 | Shelterwood | Tractor | Ex. Pile | 5 | 60 |
| 44 | Shelterwood | Tractor | Ex. Pile | 13 | 60 |
| 45 | Clearcut | Tractor | Ex. Pile | 53 | 90 |
| 46 | Shelterwood | Skyline | Underburn | 166 | 60 |
| 48 | Shelterwood | Skyline | Underburn | 4 | 60 |
| 49 | Clearcut | Skyline | Broadcast | 32 | 90 |
| 50 | Clearcut | Skyline | Broadcast | 9 | 90 |
| 51 | Clearcut | Skyline | Broadcast | 25 | 90 |
| 52 | Clearcut | Tractor | Ex. Pile | 25 | 90 |

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| Unit | Silvicultural Treatment | Harvest System | Activity- Generated Fuels Treatment | Acres | % Canopy Removal |
|----------|---|--------------------|---|---------|---------------------|
| 53 | Clearcut | Skyline | Broadcast | 26 | 90 |
| 54 | Shelterwood | Skyline | Underburn | 3 | 60 |
| 55 | Shelterwood | Skyline | Underburn | 19 | 60 |
| 56 | Shelterwood | Skyline | Underburn | 6 | 60 |
| 57 | Shelterwood | Skyline | Underburn | 11 | 60 |
| 58 | Shelterwood | Skyline | Underburn | 38 | 60 |
| 59 | Shelterwood | Skyline | Underburn | 10 | 60 |
| 60 | Shelterwood | Skyline | Underburn | 13 | 60 |
| 61 | Shelterwood | Tractor | Ex. Pile | 19 | 60 |
| 62 | Shelterwood | Skyline | Underburn | 54.5 | 60 |
| 70 | Shelterwood | Tractor | Ex. Pile | 161 | 60 |
| 72 | Clearcut | Tractor | Ex. Pile | 12 | 90 |
| 74 | Shelterwood | Tractor | Ex. Pile | 14 | 60 |
| 75 | Shelterwood | Skyline | Underburn | 72 | 70 |
| 77 | Clearcut | Tractor | Ex. Pile | 76 | 90 |
| 78 | Clearcut | Tractor | Ex. Pile | 29 | 90 |
| 79 | Irregular Shelterwood | Skyline | Underburn | 84 | 60 |
| 80 | Shelterwood | Tractor | Ex. Pile | 83 | 80 |
| 81 | Shelterwood | Tractor | Ex. Pile | 10 | 50 |
| 82 | Irregular Shelterwood | Skyline | Underburn | 26 | 50 |
| 83 | Irregular Shelterwood | Skyline | Underburn | 0.1 | 50 |
| 84 | Clearcut | Tractor | Ex. Pile | 122 | 90 |
| 85 | Irregular Shelterwood | Skyline | Underburn | 38 | 50 |
| 89 | Clearcut | Tractor | Ex. Pile | 100 | 90 |
| 90 | Shelterwood | Skyline | Underburn | 20 | 60 |
| 91 | Shelterwood | Tractor | Ex. Pile | 14 | 60 |
| 92 | Shelterwood | Tractor | Ex. Pile | 13 | 90 |
| 93 | Irregular Shelterwood | Tractor | Ex. Pile Ex. Pile | 8 16 | 35 90 |
| 94 95 | Clearcut w/Reserves | Tractor | Underburn | 30 | 90 |
| 96 | Clearcut w/Reserves | Skyline | | 6 | 50 |
| 97 | Irregular Shelterwood Clearcut w/Reserves | Skyline Tractor | Underburn Ex. Pile | 23 | 90 |
| 98 | Irregular Shelterwood | Tractor | Ex. Pile | 18 | 50 |
| 99 | Clearcut w/Reserves | Tractor | Ex. Pile | 23 | 90 |
| 100 | Clearcut w/Reserves | Skyline | Underburn | 3 | 90 |
| 103 | Clearcut w/Reserves | Tractor | Ex. Pile | 19 | 90 |
| 104 | Clearcut w/Reserves | Tractor | Ex. Pile | 5 | 90 |
| 105 | Clearcut w/Reserves | Skyline | Underburn | 8 | 90 |
| 106 | Irregular Shelterwood | Tractor | Ex. Pile | 9 | 40 |
| 107 | Irregular Shelterwood | Skyline | Underburn | 36 | 35 |
| 108 | Irregular Shelterwood | Skyline | Underburn | 45 | 35 |
| 109 | Irregular Shelterwood | Skyline | Underburn | 3 | 50 |
| 111 | Irregular Shelterwood | Skyline | Broadcast | 11 | 60 |
| 112 | Irregular Shelterwood | Tractor | Ex. Pile | 23 | 60 |
| 113 | Irregular Shelterwood | Tractor | Ex. Pile | 9 | 50 |
| 114 | Clearcut w/Reserves | Tractor | Ex. Pile | 4 | 90 |

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| Unit | Silvicultural Treatment | Harvest System | Activity- Generated Fuels Treatment | Acres | % Canopy Removal |
|------|-------------------------|-------------------|---|-------|---------------------|
| 115 | Clearcut w/Reserves | Tractor | Ex. Pile | 6 | 90 |
| 116 | Irregular Shelterwood | Skyline | Underburn | 18 | 50 |
| 117 | Irregular Shelterwood | Tractor | Ex. Pile | 14 | 50 |
| 118 | Clearcut w/Reserves | Tractor | Ex. Pile | 11 | 90 |
| 119 | Clearcut w/Reserves | Tractor | Ex. Pile | 20 | 90 |
| 120 | Irregular Shelterwood | Skyline | Underburn | 8 | 35 |
| 121 | Clearcut w/Reserves | Tractor | Ex. Pile | 18 | 90 |
| 123 | Clearcut w/Reserves | Skyline | Underburn | 11 | 60 |
| 124 | Irregular Shelterwood | Tractor | Ex. Pile | 6 | 35 |
| 125 | Clearcut w/Reserves | Skyline | Underburn | 22 | 90 |
| 127 | Clearcut w/Reserves | Tractor | Ex. Pile | 15 | 90 |
| 128 | Irregular Shelterwood | Tractor | Ex. Pile | 20 | 35 |
| 129 | Clearcut w/Reserves | Tractor | Underburn | 13 | 90 |
| 131 | Irregular Shelterwood | Tractor | Ex. Pile | 21 | 50 |
| 132 | Irregular Shelterwood | Tractor | Ex. Pile | 5 | 90 |
| 133 | Clearcut w/Reserves | Tractor | Ex. Pile | 7 | 90 |
| 134 | Clearcut w/Reserves | Tractor | Ex. Pile | 18 | 90 |
| 135 | Irregular Shelterwood | Skyline | Underburn | 22.2 | 50 |
| 137 | Irregular Shelterwood | Skyline | Underburn | 16 | 50 |
| 138 | Irregular Shelterwood | Tractor | Ex. Pile | 5 | 50 |
| 139 | Irregular Shelterwood | Tractor | Ex. Pile | 11 | 50 |
| 141 | Clearcut w/Reserves | Tractor | Ex. Pile | 54 | 90 |
| 142 | Clearcut w/Reserves | Tractor | Underburn | 9 | 90 |
| 143 | Irregular Shelterwood | Tractor | Ex. Pile | 21 | 35 |
| 144 | Clearcut w/Reserves | Tractor | Ex. Pile | 20 | 90 |
| 145 | Clearcut w/Reserves | Tractor | Ex. Pile | 6 | 90 |
| 146 | Irregular Shelterwood | Tractor | Ex. Pile | 11 | 35 |
| 147 | Irregular Shelterwood | Tractor | Ex. Pile | 11 | 50 |
| 148 | Irregular Shelterwood | Skyline | Underburn | 5 | 50 |
| 149 | Irregular Shelterwood | Tractor | Ex. Pile | 33 | 60 |
| 150 | Irregular Shelterwood | Tractor | Underburn | 10 | 60 |
| 151 | Irregular Shelterwood | Skyline | Underburn | 10 | 35 |
| 152 | Clearcut w/Reserves | Skyline | Underburn | 14 | 60 |
| 153 | Clearcut w/Reserves | Skyline | Underburn | 41 | 90 |
| 154 | Clearcut w/Reserves | Tractor | Ex. Pile | 48 | 90 |
| 155 | Clearcut w/Reserves | Skyline | Underburn | 25 | 90 |
| 156 | Clearcut w/Reserves | Tractor | Underburn | 32 | 90 |
| 157 | Clearcut w/Reserves | Skyline | Underburn | 53 | 90 |
| 158 | Clearcut w/Reserves | Skyline | Underburn | 24 | 90 |
| 159 | Clearcut w/Reserves | Tractor | Ex. Pile | 17 | 90 |
| 160 | Clearcut w/Reserves | Skyline | Underburn | 24 | 90 |
| 161 | Irregular Shelterwood | Skyline | Underburn | 21 | 50 |
| 162 | Clearcut w/Reserves | Skyline | Underburn | 16 | 90 |
| 163 | Clearcut w/Reserves | Skyline | Underburn | 44 | 90 |
| 164 | Clearcut w/Reserves | Tractor | Ex. Pile | 9 | 90 |
| 165 | Irregular Shelterwood | Skyline | Underburn | 32 | 50 |

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| Unit | Silvicultural Treatment System Gener | | Activity- Generated Fuels Treatment | Acres | % Canopy Removal |
|-------|--------------------------------------|---------|---|-------|---------------------|
| 166 | Clearcut w/Reserves | Tractor | Ex. Pile | 18 | 90 |
| 167 | Clearcut w/Reserves | Skyline | Underburn | 25 | 90 |
| 168 | Clearcut w/Reserves | Tractor | Ex. Pile | 26 | 90 |
| 169 | Clearcut w/Reserves | Skyline | Underburn | 17 | 50 |
| 170 | Irregular Shelterwood | Skyline | Underburn | 3 | 35 |
| 171 | Clearcut w/Reserves | Tractor | Ex. Pile | 1 | 90 |
| 172 | Clearcut w/Reserves | Skyline | Underburn | 24 | 90 |
| 173 | Irregular Shelterwood | Tractor | Underburn | 19 | 35 |
| 174 | Clearcut w/Reserves | Tractor | Underburn | 16 | 90 |
| 176 | Clearcut w/Reserves | Tractor | Ex. Pile | 9 | 90 |
| 177 | Irregular Shelterwood | Tractor | Ex. Pile | 5 | 50 |
| 178 | Irregular Shelterwood | Skyline | Underburn | 42 | 35 |
| 179 | Irregular Shelterwood | Tractor | Ex. Pile | 4 | 50 |
| 180 | Irregular Shelterwood | Tractor | Ex. Pile | 2 | 50 |
| 181 | Clearcut w/Reserves | Skyline | Underburn | 1 | 90 |
| 183 | Irregular Shelterwood | Tractor | Ex. Pile | 21 | 10 |
| 184 | Irregular Shelterwood | Tractor | Ex. Pile | 1 | 35 |
| 185 | Irregular Shelterwood | Tractor | Ex. Pile | 3 | 80 |
| Total | Acres Fuel Reduction Trea | 3453.8 | | | |

E.2 RESTORATION ACTIVITIES BY SUBWATERSHED

This section displays, by subwatershed, the activities with Alternative E-modified. Modifications from Alternative E as described in the FEIS are in **bold text**. Those fields in italic print indicate potential change from abandon to recontour due to soil restoration needs. Additional field reviews **would be completed** to prepare final design and contract package to implement projects.

Alternative E-Modified Project Type: **P = Planned & Required**, D = Discretionary.

DAWSON CREEK - 170603050401

Decommissioned Roads

| 211111113310110 | | | | | |
|-----------------|-------|----------------------------|------------------|-----------------------|---------------------|
| Road Number | Miles | Implementation Priority | Stream Crossings | Decommission Level | Alt E - Modified |
| 1800E1 | 1.10 | Moderate | None | Recontour | Р |
| 1800F1 | 0.09 | Low | None | Recontour | Р |
| 1800G2 | 0.56 | High | 2133 | Recontour | Р |
| 1800H1 | 0.03 | Low | None | Recontour | Р |
| 1800W | 1.01 | High | 2222 | Recondition/Recontour | Р |
| 77172 | 0.22 | Low | None | Recontour | Р |
| 77173 | 0.55 | Low | None | Recontour | Р |
| 77174 | 0.41 | Low | None | Recontour | Р |
| 77175 | 0.24 | Low | 2515, 2216 | Abandon | Р |
| 77176 | 0.57 | Low | None | Abandon | Р |
| 77176A | 0.24 | High | None | Recontour | Р |
| 77177 | 0.30 | High | None | Abandon | Р |
| 77177A | 0.20 | High | None | Abandon | Р |
| 77178 | 0.62 | High | None | Abandon | Р |
| 77180 | 0.10 | High | None | Recontour | Р |
| 77181 | 0.14 | High | None | Recontour | Р |
| 77182 | 0.58 | High | None | Convert to Trail | Р |
| 77183 | 0.45 | High | None | Recontour | Р |
| 77183A | 0.02 | High | None | Recontour | Р |
| 77184 | 0.39 | High | None | Recontour | Р |
| Total | | | 7.82 | | |

Stream Crossing Improvements

| Road Number | Crossing Number | Implementati on Priority | Issue | Alt E - Modified | Stream |
|-------------|--------------------|--------------------------------|---------------------------------|---------------------|-----------------|
| 1800 | 2121 | Low | Fish Passage Barrier | D | Dawson Creek |
| 1800 | 2131 | Low | Fish Passage Barrier | D | Dawson Creek |
| 1800G | 2100 | Low | Fish Passage Barrier | D | Dawson Creek |
| 1800G1 | 2104 | High | Log Bridge Removal | Р | Dawson Creek |
| 1800G | 2132 | Low | Partial Fish Passage Barrier | D | Dawson Creek |

| Project Name | Implementation Priority | Alt E - Modified | Stream |
|---|----------------------------|------------------|--------------|
| Dawson Creek sediment trap – 1 ac.– remove – collaboration with private landowners required | Low | D | Dawson Creek |

LOWER MAIN RED RIVER - 170603050402

| December 10000 | | | | | | | |
|----------------|-------|----------------------------|---------------------|-----------------------|---------------------|--|--|
| Road Number | Miles | Implementation Priority | Stream Crossings | Decommission Level | Alt E - Modified | | |
| 1151B | 0.45 | Low | None | Recontour | Р | | |
| 1183C | 0.53 | High | 2176, 2191 | Recondition/Recontour | Р | | |
| 1800A1 | 0.28 | High | 1969 | Recontour | Р | | |
| 1800A2 | 0.59 | High | 1761 | Recontour | Р | | |
| 1800B | 0.62 | Low | None | Recontour | Р | | |
| 1800C1 | 0.59 | High | None | Recondition/Recontour | Р | | |
| 1800C2 | 0.31 | High | 1980 | Recontour | Р | | |
| 1800D1 | 0.18 | Low | None | Recondition/Recontour | Р | | |
| 1800E1 | 0.06 | Moderate | None | Recontour | Р | | |
| 1800K | 0.12 | Low | None | Recontour | Р | | |
| 1800L | 0.21 | Low | None | Recontour | Р | | |
| 1806B1 | 0.43 | Low | 2053 | Recontour | Р | | |
| 1806C | 3.90 | High | 1913, | Recontour from Loon | Р | | |
| | | | 1941 | Creek to terminus | | | |
| 1806C1 | 1.34 | High | None | Recondition/Recontour | Р | | |
| 9501 | 0.33 | Low | None | Recontour | Р | | |
| 9506 | 0.36 | High | None | Recontour | Р | | |
| 9514 | 0.03 | High | None | Recondition/Recontour | Р | | |
| 9514A | 0.09 | High | None | Recontour | Р | | |
| 9517A | 0.29 | Moderate | None | Recondition/Recontour | Р | | |
| 9517A1 | 0.35 | Low | None | Abandon | Р | | |
| 9519A | 0.22 | High | None | Recontour | Р | | |
| 9533A | 0.16 | Low | None | Recontour | Р | | |
| 9533B | 0.01 | Moderate | None | Recontour | Р | | |
| 77162 | 0.18 | Low | None | Recontour | Р | | |
| 77163 | 1.01 | Moderate | None | Recontour | Р | | |
| 77164 | 0.37 | Low | None | Recontour | Р | | |
| 77165 | 0.42 | Low | None | Recontour | Р | | |
| 77165A | 0.24 | Low | None | Recontour | Р | | |
| 77167 | 0.18 | Low | None | Recontour | Р | | |
| 77168 | 0.23 | Low | None | Recontour | Р | | |
| 77169 | 0.23 | Low | None | Recontour | Р | | |
| 77170 | 0.10 | Low | None | Recontour | Р | | |
| 77171 | 0.10 | Low | None | Recontour | Р | | |
| 77217 | 0.62 | High | 1880 | Recontour | Р | | |
| 77218 | 0.33 | High | 1882 | Recontour | Р | | |
| 77219 | 0.41 | Moderate | None | Recontour | Р | | |
| 77222 | 0.15 | Low | None | Recontour | Р | | |
| 77223 | 0.23 | Low | None | Recontour | Р | | |
| 77224 | 0.39 | Low | None | Recontour | Р | | |
| 77225 | 0.22 | High | 2166 | Recondition/Recontour | Р | | |
| 77242 | 0.34 | Low | None | Abandon | Р | | |
| 77289 | 0.77 | Moderate | None | Recondition/Recontour | Р | | |
| 77310 | 0.44 | Low | None | Recontour | Р | | |
| 77332 | 0.44 | Low | None | Recontour | Р | | |
| 78496D | 0.06 | High | None | Recontour | Р | | |
| Total | 18.76 | | | | | | |

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Stream Crossing Improvements

| Road Number | Cross ing Number | Implementation Priority | Issue | Alt E - Modified | Stream |
|----------------|------------------------|----------------------------|------------------------------|---------------------|--------------------------------------|
| 1800A3 | 1876 | High | Log Culvert – remove | Р | Cole Creek |
| 1800C | 1956 | High | Log Culvert – remove | Р | Sixty-six Creek |
| 1800A | 1870 | High | Log Culvert – remove | Р | Cole Creek |
| 1800C2 | 1980 | High | Log Culvert – remove | Р | Sixty-six Creek |
| 1806C | 1913 | High | Log Culvert – remove | Р | Galena Creek |
| 1806C | 1941 | High | Log Culvert – remove | Р | Galena Creek |
| 1800 | 1986 | Low | Fish Passage Barrier | D | Sixty-six Creek |
| 222 | 2052 | Moderate | Fish Passage Barrier, County | D | Cartwright Creek |
| 222 | 2095 | Moderate | Fish Passage Barrier, County | D | Unnamed Tributary to Red River |
| 222 | 2188 | High | Fish Passage Barrier, County | D | Unnamed Tributary to Red River |

| Project Name | Implementation Priority | Alt E - Modified | Stream |
|---|----------------------------|------------------|-----------|
| Fencing mainstem Red River from grazing impacts – 8.0 miles – collaboration with private landowners | High | D | Red River |
| Fencing mainstem Red River from grazing impacts – 2.0 miles | High | Р | Red River |
| Large Woody Debris placement in-channel – 1.0 mile | High | Р | Red River |
| In-stream dredge mining restoration – 2.00 miles – The Narrows project – see AML Project Report 2005 | High | Р | Red River |
| Riparian restoration – The Narrow project – hardening of dispersed campsites, riparian plantings, and closure of non-system existing roads in riparian area and upgrade and maintain one access road to campsites. | High | Р | Red River |
| Riparian restoration – native species plantings – 10.0 stream miles – collaboration with private landowners (It must be noted that recent developments have caused the Soil Conservation District to drop the previously proposed restoration project of Main Red River on the privately owned segments adjacent to the Wildlife Management Area. For the purposes of this document it was decided to leave the proposed restoration work in as it was felt that possible funds may become available and private landowners may agree to collaboration on this work.) | High | D | Red River |

SIEGEL CREEK - 170603050403

Decommissioned Roads

| Road | Miles | Implementation | Stream | Decommission | Alt E - |
|--------|---------|----------------|-----------|--------------|----------|
| Number | ivilles | Priority | Crossings | Level | Modified |
| 9818A | 0.20 | High | None | Recontour | Р |
| 77207 | 0.04 | Low | None | Recontour | Р |
| Total | | | 0.24 | | |

Stream Crossing Improvements

| Road Number | Crossing Number | Implementation Priority | Issue | Alt E - Modified | Stream |
|----------------|-----------------|----------------------------|----------------------------------|---------------------|--|
| 1182 | 1664 | High | Fish Passage and Hydraulic | Р | Boyer Creek |
| 1182 | 1662 | Moderate | Culvert Upgrade (Private Prop) | D | Siegel Creek |
| 1182A | 1598 | High | Failed Log Bridge | Р | Unnamed Tributary to Siegel Creek |
| 1182C | 1634 | Moderate | Upgrade Snowmobile Log Bridge | Р | Boyer Creek |
| Private | Private | High | Possible Fish Passage Barrier | D | Little Siegel Creek |
| 1182A | 1606 | High | Failed Log Bridge | Р | Siegel Creek |

| Project Name | Implementation Priority | Alt E - Modified | Stream |
|--|----------------------------|---------------------|-----------------|
| Watershed road recondition on FS roads 1182, 1182A, and 1182C. 6.24 total miles of recondition | High | Р | Siegel Creek |
| 6 hardrock mine sites – restoration includes gates/closures to open adits, plantings of native grasses/shrub/trees to waste dumps/review of water quality - ~4.5 acres | High | Р | Siegel |
| Large Woody Debris placement – 3.0 miles on lower stretch of Siegel Creek | High | Р | Siegel Creek |

DITCH CREEK - 170603050404

Decommissioned Roads

| Road Number | Miles | Implementation Priority | Stream Crossings | Decommission Level | Alt E - Modified | |
|----------------|-------|----------------------------|---------------------|------------------------------------|------------------|--|
| 234D1 | 0.09 | High | None | Convert to Trail | Р | |
| 1183 | 1.50 | Moderate | None | Recontour from 7.00 mm to terminus | Р | |
| 1183A | 0.40 | Moderate | None | Recontour | Р | |
| 1183E | 0.50 | High | 1842 | Recontour | Р | |
| 9516A | 0.24 | Low | None | Recontour | Р | |
| 9518B | 0.19 | High | None | Recontour | Р | |
| 77207 | 0.46 | Moderate | None | Recontour | Р | |
| 77210 | 0.65 | Moderate | None | Recontour | Р | |
| 77210A | 0.42 | Low | None | Recontour | Р | |
| 77212A | 0.04 | Low | None | Recontour | Р | |
| 77213 | 1.03 | High | None | Recontour | Р | |
| 77291 | 0.30 | Low | None | Recontour | Р | |
| Total | 5.82 | | | | | |

Improvement projects

| Project Name | Implementation Priority | Alt E - Modified | Stream |
|--|----------------------------|---------------------|-------------|
| 5 hardrock mine sites – restoration includes gates/closures to open adits, plantings of native grasses/shrub/trees to waste dumps/review of water quality - ~3.6 acres | Moderate | Р | Ditch Creek |
| Ditch Creek Campground restoration – planting native species – 5.0 acres | Moderate | Р | Ditch Creek |

TRAIL CREEK - 170603050405

Decommissioned Roads

| Road Number | Miles | Implementation Priority | Stream Crossings | Decommission Level | Alt E - Modified |
|----------------|-------|----------------------------|---------------------|-----------------------|---------------------|
| 423D | 0.84 | Moderate | None | Recontour | Р |
| 423E | 0.53 | High | None | Recondition/Recontour | Р |
| 77209 | 0.30 | Moderate | None | Recontour | Р |
| 77221 | 0.85 | Moderate | None | Recontour | Р |
| 77221A | 0.13 | Moderate | None | Recontour | Р |
| 77320 | 0.20 | Moderate | None | Recontour | Р |
| Total | 2.85 | | | | |

Stream Crossing Improvements

| Road Number | Crossing Number | Implementation Priority | Issue | Alt E - Modified | Stream |
|----------------|--------------------|----------------------------|----------------------|---------------------|-------------|
| 423C | 1585 | Moderate | Log culvert – remove | D | Trail Creek |
| 423C | 1594 | Moderate | Log culvert - remove | D | Trail Creek |

BASTON CREEK - 170603050409

| Road Number | Miles | Implementation Priority | Stream Crossings | Decommission Level | Alt E - Modified |
|----------------|-------|----------------------------|---------------------|-----------------------|---------------------|
| 77265 | 0.13 | High | None | Recontour | Р |
| Total | | | 0.13 | | |

$Red\ Pines\ EIS-Record\ of\ Decision-Appendix\ E-Treatment\ Descriptions$

SODA CREEK - 170603050410

Decommissioned Roads

| Road Number | Miles | Implementation Priority | Stream Crossings | Decommission Level | Alt E - Modified |
|----------------|-------|----------------------------|---------------------------------------|---------------------------|------------------|
| 1172E | 0.51 | High | None | Recontour | Р |
| 1172F | 1.38 | High | 2030, 2049, 2058, 2075, 2103, 2123 | Recondition/ Recontour | Р |
| 77230 | 0.19 | Moderate | None | Recontour | Р |
| 77231 | 0.47 | Moderate | None | Recontour | Р |
| 77335 | 0.10 | Moderate | None | Recontour | Р |
| 77336 | 0.18 | Moderate | None | Recontour | Р |
| 9507 | 0.44 | Moderate | None | Recontour | Р |
| 9541A | 0.49 | Moderate | None | Recontour | Р |
| 9541B | 0.61 | Moderate | None | Recontour | Р |
| 9541D | 0.35 | Moderate | None | Recontour | Р |
| Total | | | 4.72 | | |

Stream Crossing Improvements

| Road Number | Crossing Number | Implementation Priority | Issue | Alt E - Modified | Stream |
|----------------|--------------------|----------------------------|----------------------|---------------------|------------|
| 1172 | 1930 | High | Fish Passage Barrier | Р | Soda Creek |
| 1172 | 2033 | High | Fish Passage Barrier | Р | Soda Creek |
| 1172 | 2076 | High | Fish Passage Barrier | Р | Soda Creek |
| 1172 | 2110 | High | Fish Passage Barrier | Р | Soda Creek |
| 1172 | 2172 | High | Fish Passage Barrier | Р | Soda Creek |
| 1172 | 2175 | High | Fish Passage Barrier | Р | Soda Creek |
| 9542 | 2209 | Moderate | Fish Passage Barrier | Р | Soda Creek |
| 9542 | 2180 | Moderate | Fish Passage Barrier | Р | Soda Creek |
| 9524 | 2171 | Moderate | Fish Passage Barrier | Р | Soda Creek |
| 9542 | 2115 | Moderate | Fish Passage Barrier | Р | Soda Creek |
| 1172F | 2030 | High | Log culvert - remove | Р | Soda Creek |
| 1172F | 2075 | High | Log culvert - remove | Р | Soda Creek |
| 9507A | 2091 | High | Log culvert - remove | Р | Soda Creek |
| 9507 | 2101 | Moderate | Log culvert - remove | Р | Soda Creek |
| 9507 | 2123 | Moderate | Log culvert - remove | Р | Soda Creek |

MAIN RED RIVER - 170603050411

Decommissioned Roads

| Road Number | Miles | Implementation Priority | Stream Crossings | Decommission Level | Alt E - Modified |
|----------------|-------|----------------------------|------------------|-----------------------|---------------------|
| 1172A | 0.85 | Moderate | 2312 | Recondition/Recontour | Р |
| 1172B | 0.55 | Low | None | Recontour | Р |
| 1172D | 0.90 | Low | None | Recontour | Р |
| 1172F | 1.13 | High | 2041 | Recontour | Р |
| 1184 | 1.59 | High | 2014 | Recontour | Р |
| 1184A | 0.51 | High | None | Recontour | Р |
| 9515A | 0.57 | High | None | Abandon | Р |
| 9516A | 0.13 | Low | None | Recontour | Р |
| 9519A | 0.45 | High | 2263 | Recontour | Р |
| 9541C | 0.36 | Moderate | None | Recontour | Р |
| 77227 | 0.53 | Low | None | Recontour | Р |
| 77228 | 0.13 | Low | None | Recondition/Recontour | Р |
| 77234 | 0.16 | High | None | Abandon | Р |
| 77235 | 0.38 | High | None | Abandon | Р |
| 77235A | 0.15 | High | None | Abandon | Р |
| 77236 | 0.11 | Low | None | Recontour | Р |
| 77237 | 0.89 | High | 2247, 2251 | Abandon | Р |
| 77238 | 0.70 | Moderate | None | Recontour | Р |
| 77238A | 0.45 | High | None | Abandon | Р |
| 77238A1 | 0.30 | High | None | Abandon | Р |
| 77239 | 0.60 | Low | None | Recontour | Р |
| 77239A | 0.19 | High | None | Abandon | Р |
| 77241 | 0.32 | High | None | Recondition/Recontour | Р |
| 77264 | 0.41 | High | None | Recontour | Р |
| 77264A | 0.17 | High | None | Recontour | Р |
| 77264B | 0.25 | High | None | Recontour | Р |
| 77265 | 0.06 | High | None | Abandon | Р |
| 77269 | 0.14 | Low | None | Recontour | Р |
| 77289 | 0.03 | Moderate | None | Recondition/Recontour | Р |
| 77333A | 0.39 | Moderate | None | Recontour | Р |
| 77334 | 0.47 | High | None | Recontour | Р |
| 77335 | 0.13 | Moderate | None | Recontour | Р |
| Total | | | 14.0 | | - |

Stream Crossing Improvements

| Road Number | Crossing Number | Implementation Priority | Issue | Alt E - Modified | Stream |
|----------------|-----------------|----------------------------|----------------------|---------------------|-----------------------------------|
| 1132 | 2073 | High | Log culvert-remove | Р | Baston Creek |
| 234 | 2158 | High | Fish passage-barrier | D | Unnamed Tributary to Red River |

Red Pines EIS – Record of Decision – Appendix E – Treatment Descriptions

Improvement projects

| Project Name | Туре | Alt E - Modified | Stream |
|--|------|---------------------|----------------|
| Large Woody Debris placement – 10.0 miles – in-channel | High | Р | Red River |
| In-stream enhancement structures – 6.0 miles - evaluate and maintain/upgrade as needed | High | Р | Red River |
| 2 hardrock mine sites – restoration includes gates/closures to open adits, plantings of native grasses/shrub/trees to waste dumps/review of water quality - ~2.0 acres | High | Р | Steckner Creek |
| Riparian restoration –6.0 miles – plant native species | High | Р | Red River |
| Red River Campground riparian restoration – 10.0 acres – plant native species | High | Р | Red River |
| Rock pit restoration – 5.0 acres – on 234 road | High | Р | Red River |

SCHOONER CREEK - 170603050412

Decommissioned Roads

| Road Number | Miles | Implementation Priority | Stream Crossings | Decommission Level | Alt E - Modified | |
|----------------|-------|----------------------------|---------------------|-----------------------|---------------------|--|
| 468N | 0.08 | Low | None | Recontour | Р | |
| 468V | 0.12 | Low | None | Recontour | Р | |
| 468X | 0.43 | Low | None | Recontour | Р | |
| 468Y | 0.27 | Low | None | Recontour | Р | |
| 77241 | 0.31 | Low | None | Recondition/Recontour | Р | |
| 77277 | 0.16 | Low | None | Recontour | Р | |
| Total | | 1.37 | | | | |

Stream Crossing Improvements

| Road Number | Crossing Number | Implementation Priority | Issue | Alt E - Modified | Stream |
|----------------|--------------------|----------------------------|----------------------|---------------------|-------------------|
| 222 | 2347 | High | Fish passage barrier | D | Schooner Creek |

Improvement projects

| Project Name | Туре | Alt E - Modified | Stream |
|--|------|---------------------|----------------|
| Large Woody Debris placement – 1.0 mile – in- channel | High | Р | Schooner Creek |
| Riparian restoration 1.08 mile – plant native species | High | Р | Red River |
| Sediment trap removal – 1 site – 2 acres | High | Р | Schooner Creek |

TRAPPER CREEK - 170603050413

| Road | Miles | Implementation | Stream | Decommission | Alt E - |
|--------|---------|----------------|-----------|--------------|----------|
| Number | ivilles | Priority | Crossings | Level | Modified |
| 1190M | 0.17 | High | None | Recontour | Р |
| 1190N | 0.08 | High | None | Recontour | Р |
| 468D | 0.35 | High | None | Recontour | Р |
| 9550B | 0.59 | High | None | Recontour | Р |
| 9551 | 0.81 | High | 2479 | Recontour | Р |
| Total | | | 2.01 | | |

PAT BRENNAN CREEK - 170603050414

Decommissioned Roads

| Road Number | Miles | Implementation Priority | Stream Crossings | Decommission Level | Alt E - Modified |
|----------------|-------|----------------------------|---------------------|-----------------------|---------------------|
| 1190M | 0.15 | High | None | Recontour | Р |
| 1190N | 0.27 | High | None | Recontour | Р |
| 77247 | 0.25 | High | None | Recontour | Р |
| 77248 | 0.07 | High | None | Recontour | Р |
| 9509 | 1.35 | High | None | Recontour | Р |
| 9551 | 0.82 | High | None | Recontour | Р |
| Total | | • | 2.11 | | |

LOWER SOUTH FORK RED RIVER - 170603050415

Decommissioned Roads

| Road Number | Miles | Implementation Priority | Stream Crossings | Decommission Level | Alt E - Modified |
|----------------|-------|----------------------------|---------------------|-----------------------|---------------------|
| 1194B1 | 0.39 | High | None | Recontour | Р |
| 1196D | 0.94 | High | None | Recontour | Р |
| 77201 | 0.69 | High | None | Recontour | Р |
| 77204 | 0.10 | High | None | Recontour | Р |
| 77205 | 0.04 | High | None | Recontour | Р |
| 77206 | 0.26 | High | None | Recontour | Р |
| 77241 | 0.68 | High | None | Recondition/Recontour | Р |
| 77244 | 0.32 | High | None | Recontour | Р |
| 77247 | 0.05 | High | None | Recontour | Р |
| 77248 | 0.09 | High | None | Recontour | Р |
| Total | | | 3.5 | 5 | |

Stream Crossing Improvements

| Road Number | Crossing Number | Implementation Priority | Issue | Alt E - Modified | Stream |
|----------------|-----------------|----------------------------|-------------------------|------------------|------------|
| 1195 | 2459 | High | Fish passage barrier | Р | Deer Creek |
| 222 | 2458 | Low | Fish passage barrier | D | Deer Creek |

| Project Name | Туре | Alt E - Modified | Stream |
|---|------|---------------------|------------------|
| Large Woody Debris placement – 2.0 miles – in-channel | High | Р | S Fork Red River |
| Riparian restoration –1.0 mile – plant native species | High | Р | S Fork Red River |

Red Pines EIS - Record of Decision - Appendix E - Treatment Descriptions

UPPER SOUTH FORK RED RIVER - 170603050416

Decommissioned Roads

| Road Number | Miles | Implementation Priority | Stream Crossings | Decommission Level | Alt E - Modified |
|----------------|-------|----------------------------|---------------------|--------------------|------------------|
| 1194A1 | 0.41 | High | None | Recontour | Р |
| 77202 | 0.27 | High | None | Recontour | Р |
| 77203 | 0.11 | High | None | Recontour | Р |
| 9502B | 0.17 | High | None | Recontour | Р |
| 9525 | 0.80 | High | None | Recontour | Р |
| 9526 | 2.40 | High | None | Recontour | Р |
| 9526B | 0.53 | High | None | Recontour | Р |
| Total | 4.69 | | | | |

Stream Crossing Improvements

| Road Number | Crossing Number | Implementation Priority | Issue | Alt E - Modified | Stream |
|----------------|--------------------|----------------------------|----------------------|---------------------|-------------------------|
| 222 | 2711 | High | Fish passage barrier | D | South Fork Red River |

MIDDLE FORK RED RIVER - 170603050417

| Road Number | Miles | Implementation Priority | Stream Crossings | Decommission Level | Alt E - Modified |
|----------------|-------|----------------------------|---------------------|-----------------------|---------------------|
| 77202 | 0.17 | High | None | Recontour | Р |
| 9526B | 0.36 | High | None | Recontour | Р |
| Total | | | 0.53 | | |

MOOSE BUTTE CREEK - 170603050419

Decommissioned Roads

| Road | Miles | Implementation | Stream | Decommission | Alt E - |
|--------|---------|----------------|-----------|--------------|----------|
| Number | IVIIIES | Priority | Crossings | Level | Modified |
| 1151B | 0.10 | High | None | Recontour | Р |
| 1196D | 0.14 | High | None | Recontour | Р |
| 77244 | 0.03 | High | None | Recontour | Р |
| Total | | | 0.26 | | |

Stream Crossing Improvements

| Road Number | Crossing Number | Implementation Priority | Issue | Alt E - Modified | Stream |
|----------------|--------------------|----------------------------|-----------------------|---------------------|----------------------|
| 1151 | 2358 | High | Fish passage- barrier | Р | Moose Butte Creek |
| 1150B | 2363 | High | Log culvert-remove | Р | Ryan Creek |
| 1196 | 2376 | High | Fish passage-barrier | Р | Moose Butte Creek |
| 1196 | 2392 | High | Log culvert-remove | Р | Ryan Creek |

| Project Name | Mitigation Type | Alt E - Modified | Stream |
|--|--------------------|---------------------|----------------------|
| Fencing of stream from grazing impacts – collaboration with private landowners – 1.0mile | High | D | Moose Butte Creek |
| Large Woody Debris placement – 2.0 miles – in-channel | High | Р | Moose Butte Creek |
| Riparian restoration –2.0 miles – plant native species | High | D | Moose Butte Creek |
| Sediment trap removal – 2 sites – 4 acres | High | Р | Moose Butte Creek |
| In-stream enhancement structure evaluation – 2.0 mile- evaluate for maintenance/upgrade | High | Р | Moose Butte Creek |

LITTLE MOOSE CREEK 170603050420

Decommissioned Roads

| Road Number | Miles | Mitigation Type | Stream Crossings | Decommis sion Level | Alt E - Modified |
|----------------|-------|--------------------|--|---------------------|---------------------|
| 1800H1 | 0.2 | High | None | Recontour | Р |
| 9500B | 0.32 | High | 2168 | Recontour | Р |
| 9500C1 | 0.32 | High | 2256, 2257, 2260, 2267, 2282, 2308, 2309 | Recontour | Р |
| 9506 | 2.16 | High | None | Recontour | Р |
| 9511 | 2.11 | High | 2276 | Recontour | Р |
| 9532B1 | 0.66 | High | None | Recontour | Р |
| 9532B2 | 0.55 | High | None | Recontour | Р |
| 9533B | 0.64 | High | None | Recontour | Р |
| 77183 | 0.18 | High | None | Recontour | Р |
| 77183A | 0.46 | High | None | Recontour | Р |
| 77184 | 0.04 | High | None | Recontour | Р |
| 77185 | 0.12 | High | None | Recontour | Р |
| 77186 | 0.38 | High | None | Recontour | Р |
| 77186A | 0.09 | High | None | Recontour | Р |
| 77187 | 0.59 | High | None | Recontour | Р |
| 77188 | 0.15 | High | None | Recontour | Р |
| 77189 | 0.14 | High | None | Recontour | Р |
| 77190 | 0.56 | High | None | Recontour | Р |
| 77191 | 0.50 | High | None | Recontour | Р |
| 77191A | 0.2 | High | None | Recontour | Р |
| 77192 | 1.10 | High | None | Recontour | Р |
| 77287 | 0.10 | High | None | Recontour | Р |
| Total | | | 11.61 | - | _ |

Stream Crossing Improvements

| Road Number | Crossing Number | Implementation Priority | Issue | Alt E - Modified | Stream |
|----------------|-----------------|----------------------------|--------------------------|---------------------|-----------------------------|
| 9500 | 2219 | High | Fish passage- barrier | Р | Little Moose Butte Creek |
| 9506 | 2308 | High | Log bridge- remove | Р | Little Moose Butte Creek |
| 1800 | 2261 | High | Log culvert | Р | Little Moose Butte Creek |
| 18001 | 2279 | High | Fish passage- barrier | Р | Little Moose Butte Creek |

| Project Name | Туре | Alt E - Modified | Stream |
|---|------|---------------------|--------------------------|
| Large Woody Debris placement – 2.0 miles – in-channel | High | Р | Little Moose Butte Creek |
| Riparian restoration – 2.0 miles – plant native species | High | Р | Little Moose Butte Creek |
| Sediment trap removal – 2 sites – 4 acres | High | Р | Little Moose Butte Creek |

BLANCO CREEK - 170603050421

Decommissioned Roads

| Road Number | Miles | Mitigation Type | Stream Crossings | Decommission Level | Alt E - Modified | |
|----------------|-------|--------------------|---------------------|-----------------------|---------------------|--|
| 77226 | 0.35 | Low | 2079 | Recontour | Р | |
| 77310 | 0.26 | High | None | Recontour | Р | |
| 9504 | 0.60 | High | None | Recontour | Р | |
| 9514 | 1.18 | High | 2161 | Recondition/Recontour | Р | |
| 9514A | 0.19 | High | None | Recontour | Р | |
| 9519 | 1.33 | High | None | Recondition/Recontour | Р | |
| 9519B | 0.48 | High | None | Recontour | Р | |
| Total | 4.39 | | | | | |

Stream Crossing Improvements

| Road Number | Crossing Number | Implementation Priority | Issue | Alt E - Modified | Stream |
|----------------|--------------------|----------------------------|-----------------------|---------------------|--------------|
| 234 | 2258 | High | Fish passage- barrier | D | Blanco Creek |

DEADWOOD CREEK - 170603050422

| Road | Miles | Mitigation | Stream | Decommission | Alt E - |
|---------|-------|------------|-----------|--------------|----------|
| Number | 0.45 | Туре | Crossings | Level | Modified |
| 522K | 0.47 | High | None | Recontour | Р |
| 522K1 | 0.47 | High | None | Recontour | Р |
| 1803C | 0.29 | High | 1810 | Recontour | Р |
| 1803D | 0.87 | High | None | Recontour | Р |
| 78363 | 0.35 | High | None | Recontour | Р |
| 78402 | 0.38 | High | None | Recontour | Р |
| 78408 | 0.56 | High | None | Recontour | Р |
| 78408A | 0.11 | High | None | Recontour | Р |
| 78408B | 0.16 | High | None | Recontour | Р |
| 78409 | 0.32 | High | None | Abandon | Р |
| 78410 | 0.22 | High | None | Recontour | Р |
| 78411 | 0.28 | High | None | Abandon | Р |
| 78412 | 0.85 | High | None | Recontour | Р |
| 78412A | 0.39 | High | None | Recontour | Р |
| 78412A1 | 0.18 | High | None | Recontour | Р |
| 78412A2 | 0.13 | High | None | Recontour | Р |
| 78501 | 0.16 | High | None | Recontour | Р |
| 78502 | 0.34 | High | None | Recontour | Р |
| 78504 | 0.09 | High | None | Abandon | Р |
| 78505 | 0.31 | High | 1806 | Recontour | Р |
| 78505A | 0.1 | High | None | Recontour | Р |
| 78507 | 0.43 | High | 1852 | Recontour | Р |
| 78508 | 0.25 | High | None | Recontour | Р |
| 78508A | 0.21 | High | None | Recontour | Р |
| 78509 | 0.63 | High | None | Recontour | Р |
| 78509A | 0.29 | High | None | Recontour | Р |
| 78509B | 0.13 | High | None | Recontour | Р |
| 9803B2 | 0.13 | High | None | Recontour | Р |
| Total | | | 9.95 | , | |

Stream Crossing Improvements

| Road Number | Crossing Number | Implementation Priority | Issue | Alt E - Modified | Stream |
|----------------|-----------------|----------------------------|---|---------------------|---|
| 522 | 1869 | High | Artificial debris upstream of culvert removal | Р | Unnamed Tributary to Deadwood Creek |
| 522 | 1921 | High | Fish passage- barrier | Р | Unnamed Tributary to Deadwood Creek |
| 1803 | 1706 | High | Fish passage- barrier | Р | Deadwood Creek |

Improvement projects

| Project Name | Type | Alt E - Modified | Stream |
|--|------|------------------|----------------|
| Watershed road condition on F S Road 522B – 2.20 miles | High | Р | Deadwood Creek |
| Large Woody Debris placement – 1.0 miles – in-channel | High | Р | Deadwood Creek |
| Riparian restoration –1.0 miles – plant native species | High | Р | Deadwood Creek |
| 5 hardrock mine sites – restoration includes gates/closures to open adits, plantings of native grasses/shrub/trees to waste dumps/review of water quality - ~8.0 acres | High | Р | Deadwood Creek |

RED HORSE CREEK - 170603050423

Stream Crossing Improvements

| Road Number | Crossing Number | Implementation Priority | Issue | Alt E - Modified | Stream |
|----------------|--------------------|----------------------------|----------------------|---------------------|-----------------|
| 1807B | 1544 | High | Failed log bridge | Р | Red Horse Creek |

Improvement projects

| Project Name | Туре | Alt E - Modified | Stream |
|---|------|---------------------|-----------------|
| 1807B Road to trail conversion – 0.43 miles | High | Р | Red Horse Creek |

FRENCH GULCH CREEK - 170603050424

Decommissioned Roads

| Road | Miles | Mitigation | Stream | Decommission | Alt E - | |
|--------|---------|------------|-----------|--------------|----------|--|
| Number | IVIIIES | Type | Crossings | Level | Modified | |
| 78560 | 1.21 | High | None | Recontour | Р | |
| Total | 1.21 | | | | | |

| Project Name | Туре | Alt E - Modified | Stream |
|---|------|---------------------|-----------------------|
| Riparian restoration –1.0 mile – plant native species | High | Р | French Gulch Creek |

CAMPBELL CREEK - 170603050425

Decommissioned Roads

| Road | Miles | Mitigation | Stream | Decommission | Alt E - |
|--------|---------|------------|-----------|--------------|----------|
| Number | ivilles | Туре | Crossings | Level | Modified |
| 522 | 1.09 | High | 1618 | Recontour | Р |
| Total | 1.09 | | | | |

Stream Crossing Improvements

| Road Number | Crossing Number | Implementation Priority | Issue | Alt E - Modified | Stream |
|----------------|--------------------|----------------------------|--------------------------------|---------------------|--------------------|
| 522 | 1593 | High | Culvert removal – BLM | Р | Little Campbell |
| 1803 | 1591 | High | Culvert replacement- BLM | D | Little Campbell |
| 1803 | 1652 | High | Fish passage- barrier | Р | Big Campbell |

LOWEST RED RIVER - 170603050426

Decommissioned Roads

| Road Number | Miles | Mitigation Type | Stream Crossings | Decommission Level | Alt E - Modified |
|----------------|-------|--------------------|---------------------|-----------------------|------------------|
| 78496 | 1.72 | High | 1833 | Recontour | Р |
| 78496A | 0.02 | High | None | Recontour | Р |
| 78496B | 0.05 | High | None | Recontour | Р |
| 78496C | 0.09 | High | None | Recontour | Р |
| 78496D | 0.23 | High | None | Recontour | Р |
| 78497A | 0.17 | High | None | Recontour | Р |
| 78622 | 0.61 | High | None | Recontour | Р |
| 9803B1 | 1.75 | High | None | Recontour | Р |
| 9803B2 | 0.76 | High | None | Recontour | Р |
| 9803B3 | 0.92 | High | None | Recontour | Р |
| 9819A2 | 0.34 | High | None | Recontour | Р |
| Total | 6.65 | | | | |

| Project Name | Туре | Alt E - Modified | Stream |
|--|------|---------------------|--------------------|
| Large Woody Debris placement – 7.0 miles – in-channel | High | Р | Lower Red River |
| 3 hardrock mine sites – restoration includes gates/closures to open adits, plantings of native grasses/shrub/trees to waste dumps/review of water quality - ~3.0 acres | High | Р | Lower Red River |
| Riparian restoration –7.0 miles – plant native species | High | Р | Lower Red River |